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Other papers presented were :

35. Some further remarks on the Mentor Beds, by A. W. Jones.
(By title.)

36. On some public water-supplies, by E. H. S. Bailey. (By title.)

37. A contribution to the origin of gypsum beds, by E. H. S. Bailey and M. K. Shaler.

38. Ecological areas in Florida flora, by A. S. Hitchcock. (By title.) An oral abstract of the paper was given by the author.

The minutes of the present session were read and approved.

On motion, adjourned to meet at nine o'clock Saturday morning, in the parlor of the Commercial hotel.

SATURDAY MORNING, December 30.

The Academy met pursuant to adjournment; President Hitchcock in the chair.

J. H. Newby, Osage City, Kan., was elected to active membership.

A motion was passed requesting Profs. F. O. Marvin and A. S. Hitchcock to deliver lectures before the Academy at Topeka during the coming year, and that the arrangements for the lectures be left to the executive committee.

On motion, adjourned *sine die*.

D. E. LANTZ, *Secretary*.

THIRTY-THIRD ANNUAL MEETING OF THE KANSAS ACADEMY OF SCIENCE, DECEMBER 28-29, 1900.

TOPEKA, KAN., December 28, 1900.

The Kansas Academy of Science met for the thirty-third annual meeting at Topeka. The opening session was held in the old supreme court-room, in the state-house.

The Academy was called to order by President Hitchcock at ten o'clock A. M., December 28, 1900.

The following members were present: E. H. S. Bailey, W. C. Bauer, J. W. Beede, R. B. Dunlevy, C. N. Gould, C. F. Gustafson, H. J. Harnly, A. S. Hitchcock, Warren Knaus, E. B. Knerr, D. E. Lantz, J. R. Mead, Grace Meeker, E. Miller, W. K. Palmer, L. E. Sayre, L. H. Shattuck, Alva J. Smith, B. B. Smyth, A. H. Thompson, J. D. Walters, J. T. Willard, J. E. Welin, L. C. Wooster. A number of visitors were also present.

The record of business transacted at the last meeting of the Academy was read by the secretary.

The president appointed the following committees:

On program: C. N. Gould, D. E. Lantz, H. J. Harnly.

On membership: J. W. Beede, L. C. Wooster, W. C. Bauer.

The reading of papers was then taken up in the order presented by the preliminary program.

1. The spring flora of Cowley county, by Mark White. (Read by the secretary, in the absence of the author.)

2. Magnetic measurements at the Baldwin magnetic observatory of the United States coast and geodetic survey, by Wm. C. Bauer.

3. Additions to the list of Kansas Coleoptera during 1899-1900, by Warren Knaus.

4. The relative rate of digestion of raw vegetable proteids and cooked, by J. T. Willard and Maud Gardiner. (Read by J. T. Willard.)

5. The Muscotah artesian wells, by E. B. Knerr.

6. The Atchison diamond-drill prospect hole, by A. E. Langworthy. (Read by title, in the absence of the author.)

7. Salt plains in Oklahoma, by C. N. Gould.

The following were read by title or abstracts given by the authors:

8. Catalogue of the Goss ornithological collection, by B. B. Smyth.

9. List of birds observed in Dickinson county, by D. E. Lantz.

10. List of plants collected in Lee county, Florida, by A. S. Hitchcock.

11. List of plants in my Florida herbarium, part II, by A. S. Hitchcock.

On motion of L. E. Sayre, a committee of five was appointed to consider the welfare of the Academy, and to report at a later session of this meeting. The following were appointed members of the committee by acclamation: E. H. S. Bailey, A. H. Thompson, D. E. Lantz, A. S. Hitchcock, Warren Knaus.

After announcements for the afternoon meeting the Academy adjourned, to meet at two o'clock P. M.

FRIDAY AFTERNOON, December 28.

President Hitchcock called the Academy to order at two P. M. He appointed the following committees:

On necrology: A. H. Thompson, E. Miller.

On nominations: J. T. Willard, E. H. S. Bailey, E. B. Knerr.

On resolutions: W. K. Palmer, A. J. Smith.

Auditing accounts: J. R. Mead, L. E. Sayre, Warren Knaus.

The committee on membership reported, recommending the following: J. M. Westgate, Manhattan; Carl Johns, Lindsborg; J. A. Harris, Lawrence; L. N. Morscher, Lawrence; Arthur Ringer, Baldwin; S. A. Diel, Baldwin; E. N. Johnson, Holton.

On motion, they were duly elected to active membership.

Papers were then presented as follows:

12. Collecting notes on Kansas Coleoptera, by Warren Knaus.

13. Soil exhaustion by continuous cropping of wheat, by J. T. Willard.

14. The value of graphical methods in teaching thermodynamics, by W. K. Palmer.

15. Some recent experiments with liquid ammonia as a solvent, by E. C. Franklin and C. A. Kraus. (Read by Mr. Franklin.)

16. Americus limestone, by A. J. Smith.

17. On the southern extension of the Marion and Wellington formations, by C. N. Gould.

18. Additional notes on medicinal plants of Kansas—medicinal agents of the Asclepiadaceæ, by L. E. Sayre.

19. The effect of oxygen on animal life, by J. T. Willard and A. T. Kinsley. (Read by Mr. Willard.)

20. Dakota Cretaceous of Kansas and Nebraska, by C. N. Gould. (Read by title.)

21. Some Diatomaceæ of Reno county, Kansas, by Geo. H. Curtis. (Read provisionally by title, the author having been detained at home by illness.)

22. The Flint Hills, by J. R. Mead.

23. The use of ball bearings for general machinery, by W. K. Palmer.

24. A new Cretaceous turtle, by S. W. Williston.

The committee on membership reported, recommending E. H. Sellards, Lawrence; D. F. McFarland, Lawrence; and C. H. Martin, Topeka.

On motion, they were elected to active membership.

On motion, adjourned until eight o'clock P. M.

FRIDAY EVENING, December 28.

The Academy met in the senate chamber.

Pres. A. S. Hitchcock gave the annual address, choosing as a subject "A Brief Outline of Ecology."

Prof. E. Miller gave a lecture on "The Milky Way," illustrated with many lantern slides.

Prof. G. P. Grimsley delivered a lecture on "The Mines and Minerals of Kansas," illustrated with numerous lantern slides.

On motion, the Academy adjourned, to meet at nine o'clock A. M., Saturday.

SATURDAY MORNING, December 29.

The Academy met in the senate chamber, and was called to order by President Hitchcock.

The minutes of the sessions of Friday were read and approved.

The committee on nominations presented the following report:

For president, E. Miller, Lawrence.

First vice-president, J. C. Cooper, Topeka.

Second vice-president, L. C. Wooster, Emporia.

Secretary, D. E. Lantz, Alma.

Treasurer, E. C. Franklin, Lawrence.

Librarian, B. B. Smyth, Topeka.

Curators: B. B. Smyth, Topeka; Warren Knaus, McPherson; G. P. Grimsley, Topeka; Edward Bartow, Lawrence.

On motion, the report was laid on the table to await the report of the committee on the welfare of the Academy.

The secretary read the following letter to the librarian from Rev. Jno. D. Parker, one of the founders of the Academy:

Prof. B. B. Smyth:

EAST ORANGE, N. J., December 20, 1900.

DEAR SIR—I have received the "preliminary program" of the thirty-third annual meeting of the Kansas Academy of Science, and it stirs memories of the olden time. It does not seem a third of a century since Professor Mudge and I, with a few local attendants (called out for the occasion), organized, in my lecture-room in Lincoln College, the Kansas Natural History Society, which was afterward enlarged in its scope and became the Kansas Academy of Science. That was the beginning; but Professor Mudge said: "We must not despise the day of small things." Sometimes I would make a motion, and Professor Mudge would second it and put it to vote, and when we both voted for it the motion was carried *unanimously*. That was a blessing to have perfect unanimity. At the second annual meeting, held in the Topeka Presbyterian church, I secured half rates on the Kansas Pacific railway for those attending the meeting, provided the secretary signed the return ticket. I remember signing the return ticket of just one man, who came into the meeting a few minutes to meet the requirements of the railway.

Scientists were scarce in those days, and to a scientist there were "chunks of solitude"; but I do not want you to think that Professor Mudge and I were not happy. I think we had more substantial enjoyment than any other two persons in Kansas. It was easy to run down to Lawrence, and Professor Snow was the prince of good fellows. You remember that where Lord Brougham sat "there was the head of the table," and where Professor Mudge sat there was the head of the table. He had an inexhaustible fund of knowledge, which was enlivened by incidents arising out of his wide and varied experiences. He was one of the most charming lecturers in the West. Once he gave a lecture on the "Geology of Kansas" in my church in Burlington, Kan., and he held the audience spell-bound until he finished. I remember some amusing incidents of his life.

Professor Mudge was very fond of pepper, and one time, while eating and shaking the pepper-box over his plate, the top came off suddenly and nearly all the pepper came out of the box on his food. That day I noticed the professor was especially lively, but sometimes tears would come into his eyes. I read of a man who, having never seen red pepper, put a teaspoonful into his mouth to sample it. When tears came into his eyes he was asked what stirred his emotions. He replied that he was thinking of his grandfather. I suppose Professor Mudge must have been working up his genealogical record that day, for he seemed to have very tender emotions.

One day, while visiting Professor Mudge at Manhattan, we went to an Indian burial-place and took out of a grave a skeleton, and a brass kettle placed in the grave that the deceased Indian could use as he went to the happy hunting-grounds.

The broken skeleton was placed in the kettle which was put in the back end of the wagon often used by the professor on geological excursions. On returning to his home I looked back in the wagon and saw the bones in the kettle, and told the professor it reminded me of a passage of scripture. He asked what passage. I told him it was recorded in 2 Kings iv: 40: "O thou man of God, there is death in the pot."

Perhaps you may remember that Professor Mudge lived very much in the past, and knew almost everything in geological history, but did not always keep up with current events. One time he was visiting us at the institution for the blind, at the time of meeting of the board of trustees. We were all sitting at the long table in the dining-room—the trustees, teachers, Professor Mudge, and my family. Professor Mudge was deploring the fact that writers in Eastern papers would misrepresent Kansas and exaggerate. One of the trustees asked him to give some example where a writer had exaggerated. "Well," said the Professor slowly, in his sober, unassuming way, trying to call up an example, "recently I saw a letter in an Eastern paper where a writer, in describing the grasshopper scare, actually stated that when the grasshoppers visited Kansas they were three feet deep at Topeka." The trustee asked him who wrote the article. Professor Mudge replied that he had almost forgotten the name of the writer; but after a moment he added, trying to recall it, "I believe it was Eli—Eli—it seems to me it was Eli Perkins!" The whole company, of course, burst into a roar of laughter, and Professor Mudge, whose awakened memory and quick perception took in the situation, laughed as heartily as the others. We all agreed with Professor Mudge in his proposition that writers would sometimes exaggerate, but the example given of a humorist did not prove it.

The thousand dollars which the friends of science put into Professor Mudge's monument at Manhattan was simply a token of the deep and abiding love which all classes felt for him. His large scientific knowledge; his modesty and unassuming manners; his purity of character and sweetness of disposition; his wonderful activity, both physical and mental, up to the day of his death—for when he received the paralytic stroke that terminated his life he was preparing one of his charming lectures—all of these things give him a place and a name that will remain sacred in Kansas as long as science is cultivated on the great central plains of North America. I remember that Chancellor Snow once said that Professor Mudge was about equal to three ordinary men.

Well, I want you to tell all the members of the Kansas Academy of Science that my heart goes out to them wonderfully. In all my scientific work, no scientists have come quite so close to me, and been so dear to my heart, as those in Kansas. I wish I could attend the meeting at Topeka. How the recollections rush upon me as I think of the scientific associations which it has been my privilege to originate, viz.:

Kansas Academy of Science,
Kansas City Academy of Science,
Nebraska Academy of Science, and
California Science Association.

Out of these, I am told, have sprung the
Indiana Academy of Science and
Ohio Academy of Science.

These are the children and grandchildren of a wonderful scientific family. The field of all these associations covers a third of a million square miles; ten millions of people live in it; and a thousand scientists are connected with these associations, it is estimated. What hath God wrought in the West, by the humblest instrumentality! Fraternally, JOHNS D. PARKER.

On motion of Doctor Williston, the letter was ordered published in the proceedings of the Academy.

The committee on the welfare of the Academy presented the following report :

To the Members of the Kansas Academy of Science :

Your committee to whom was entrusted the consideration of the general welfare of the society beg leave to make the following report :

First.—We recognize the great value of the library to the members of the Academy and to the people of the state at large. For the small appropriations and amount expended in printing, a very large amount of most valuable material is received in the way of exchanges; indeed, an amount far in excess of the cost of our own publications. We believe that every effort should be made to increase the library; and when some plan is formulated for the consolidation of all the libraries in the state-house under a common head we should favor having the Kansas Academy library made a part of this collection.

Second.—We consider the Goss collection of birds very valuable for instructional purposes and as such it should be made more available by having larger cases provided, to relieve the crowded condition of the collections. This collection requires the constant care of some competent person in order to keep it in good condition.

Third.—We urge at as early a period as possible the establishment and maintenance by the Academy of an economic museum of the industrial products of the state for popular instruction. We have already the basis for such a collection, and we realize that it will be of great interest and value in the development of our resources, and will attract the attention of those desirous of investing capital in the state. We believe that the collection for the museum of specimens other than those having a distinct industrial value should be for the present discouraged.

Fourth.—We believe that the value of our publications both to our own members and to the scientific world would be doubled if these publications could be issued promptly. We suggest, therefore, that an effort be made to issue bulletins containing the most important papers whenever they are offered for publication, and that these bulletins be serially numbered, paged, and indexed, so as to be convenient for binding. By this means we should secure for the Academy many valuable papers which at present are sent to other journals. The Academy does not attract many important papers that would give it a higher standing in the scientific world.

Fifth.—We suggest that the secretary keep himself informed in regard to all persons in the universities, colleges and high schools of the state, and all other persons interested in science, and that a persistent effort be made to secure their cooperation in forwarding the work of the Academy.

Sixth.—We recommend that such changes be made in the constitution of the Academy as that the officers shall be a president, two vice-presidents, a secretary, a treasurer, and an editor. We suggest that the secretary be a salaried officer, and that he have charge of all the books, collections and material properly belonging to the Academy. We suggest that the editor be chairman *ex officio* of a committee of three who shall have the entire responsibility of issuing the proceedings of the Academy.

Seventh.—We ask for the following annual appropriations from the legislature : For the salary of secretary, including help of a stenographer, \$1200; for new mu-

sum cases for the Goss collection and for the industrial collections referred to above, \$500; for postage, express, etc., \$300; total, \$2000.

Respectfully submitted.

E. H. S. BAILEY,	A. S. HITCHCOCK,
W. KNAUS,	D. E. LANTZ,
A. H. THOMPSON,	<i>Committee.</i>

The report was taken up by sections, and, after slight amendments, was adopted as presented above.

The report of the committee on nominations was taken from the table, and, on motion, the persons nominated were duly elected, the secretary casting the ballot.

The treasurer reported a balance of \$124.90 on hand.

On motion of B. B. Smyth, fifty dollars was set aside for use of the executive committee in furnishing illustrations for next report.

The reading of papers was then continued.

26. Sanitary water analysis at Kansas University, by Edward Bar-tow. (Read by Prof. E. H. S. Bailey.)

27. Wild flowers of Kansas adapted to cultivation, by Grace R. Meeker.

28. Contributions toward a monograph of the Permian of the central United States: (1) The Permian of the Blue Valley and its fauna, by J. W. Beede.

29. The food of fishes in central Kansas, by Geo. H. Curtis. (Read by title.)

30. The Kansas-Oklahoma Triassic and its invertebrate fauna, by C. N. Gould and J. W. Beede.

31. A new method for the identification of arsenic, antimony, and tin, by H. P. Cady. (Presented by E. H. S. Bailey.)

32. The Atchison shales, by J. W. Beede.

33. A new mangano-ferrous mineral water, by E. H. S. Bailey.

On motion, adjourned to meet at 1:30 P. M.

SATURDAY AFTERNOON, December 29.

The Academy was called to order by President Hitchcock at 1:30 o'clock P. M.

B. B. Smyth and F. W. Cragin, having been members of the Academy for twenty years, were, on recommendation of the committee on membership, elected as life members.

F. F. Crevecoeur, of Onaga, was proposed for membership and duly elected.

On motion, Prof. George T. Fairchild, of Berea, Ky., was elected to honorary membership in the Academy.

The reading of papers was then continued.

34. Archeology of Catalina island, by J. R. Mead.

35. Principles of chimney design, by W. K. Palmer.

36. Catalogue of the Quintard conchological collection, by B. B. Smyth. (Read by title.)

37. The black duck (*Anas obscura*) in Kansas, by R. Matthews. (Presented by D. E. Lantz.)

The auditing committee reported that the accounts of the treasurer were correct. The report was accepted and the committee discharged.

The president appointed, as a committee on legislation, Dr. S. W. Williston, D. E. Lantz, and Dr. A. H. Thompson.

Mr. B. B. Smyth announced that the Quintard collection of shells had come into the custody of the curators of the Academy, to be exhibited in the state museum.

On motion, a committee of three was appointed to consider the proper acceptance of the gift and act thereon. The president appointed D. E. Lantz, E. A. Popenoe and B. B. Smyth members of said committee.

The following papers were then presented :

38. Kansas climate and crop review, 1900, by T. B. Jennings. (Read by title.)

39. Annotated catalogue of the crayfishes of Kansas, by J. A. Harris. (Abstract given by the author.)

40. The role of isostasy, by L. N. Morscher.

41. Fossil plants from the Permian of Kansas, by E. H. Sellards.

The committee on resolutions reported the following :

Resolved, By the Kansas Academy of Science, in session at Topeka, Kan., December 29, 1900, that the thanks and appreciation of the Academy be and are hereby extended to the officers of the state-house for the accommodations and conveniences kindly afforded the Academy during its sessions, and to the press of Topeka for its courtesies to the Academy; and the secretary is hereby instructed to transmit a copy of this resolution to the officials to whom the Academy is indebted and to the Topeka press.

W. K. PALMER.
A. J. SMITH.

Prof. E. H. S. Bailey gave written notice of a change in the constitution to embody the recommendations of the committee adopted by the Academy at the morning session.

The time and place for the next annual meeting of the Academy were, on motion, referred to the executive committee for action.

The minutes were then read and approved.

On motion, the Academy took a recess until eight o'clock P. M., January 25, 1901.

TOPEKA, KAN., January 25, 1901.

The Kansas Academy of Science met pursuant to adjournment of December 29, 1900, Pres. E. Miller in the chair.

President Miller stated the object of the present adjourned session.

Prof. F. O. Marvin delivered a lecture on "Water-supply from a Sanitary Standpoint."

On motion of Professor Sayre, the lecturer was asked to permit the Academy to publish his lecture in the forthcoming volume of "Transactions."

A special order of business was the consideration of the amendment to the constitution proposed on December 29 by Prof. E. H. S. Bailey.

Moved by Professor Bailey to amend section 4 of the constitution so that it shall read :

The officers of this Academy shall be chosen by ballot at the annual meeting, and shall consist of a president, two vice-presidents, a secretary, and a treasurer, who shall perform the duties usually pertaining to their respective offices. The president, secretary, and treasurer shall constitute an executive board. The secretary shall have charge of all the books, collections, and material properly belonging to the Academy.

The amendment was adopted by a vote of ten to two.

On motion, the sixth by-law was amended by substituting the word "secretary" for the word "librarian."

The secretary was instructed to report a revision of the constitution and by-laws to the Academy at the next annual meeting.

Professor Sayre announced that an invitation had been received from the city of Iola, asking that the next meeting of the Academy be held there.

On motion, the Academy adjourned *sine die*.

D. E. LANTZ, *Secretary*.